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FILE 'REGISTRY' ENTERED AT 07:29:49 ON 16 MAY 2003
               0 S MOLDOSIMINE/CN
Ll
               1 S MOLSIDOMINE/CN
L2
               1 S NITROGLYCERIN/CN
L3
                 SELECT L3 1- CHEM
     FILE 'CAPLUS' ENTERED AT 07:31:29 ON 16 MAY 2003
    136795 S E1-124
23559 S CYCLODEXTRIN
L4
L5
      1781782 S CONTROL?
L6
          76644 S SUSTAIN?
L7
L8
       1841381 S L6 OR L7
       553508 S RELEAS?
104447 S L9 (L) L8
L9
L10
            17 S L10 AND L5 AND L4
L11
         70588 S PROSTAGLANDIN
9786 S PROSTACYCLIN
L12
L13
           6337 S PROSTANOID
L14
          77546 S L12 OR L13 OR L14
L15
            16 S L15 AND L5 AND L10
L16
        1396620 S ALPHA OR .ALPHA.
7 S L16 AND L17
L17
L18
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L11 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS
   ACCESSION NUMBER:
                            2001:510677 CAPLUS
   DOCUMENT NUMBER:
                            135:293831
   TITLE:
                            Preparation and characterization of novel
                            peracetylated cyclodextrin complexes
   AUTHOR (S):
                            Buchanan, C. M.; Dixon, D. W.; Offermann, R. J.;
                            Szejtli, J.; Szente, L.; Vikmon, M.
   CORPORATE SOURCE:
                            Eastman Chemical Company, Kingsport, TN, USA
Cyclodextrin: From Basic Research to Market,
   SOURCE:
                            International Cyclodextrin Symposium, 10th, Ann Arbor,
                            MI, United States, May 21-24, 2000 (2000), 526-536. Wacker Biochem Corp.: Adrian, Mich.
                            CODEN: 69BFYD
  DOCUMENT TYPE:
                            Conference; (computer optical disk)
  LANGUAGE:
                           English
       The pptn. method was used as a practical and reliable technique for prepg.
       inclusion complexes of triacetyl-cyclodextrin (CD) that would be
       applicable to various different types of guest compds. The oily
       multicomponent vanilla and lemon exts. could be converted to solid
       triacetyl-CD/fragrance complexes by the pptn. method using acetone as the
       common solvent. Complexes of triacetyl-CD and fragrances provided an
       acceptable component distribution and total fragrance load. An aq. alc.
       soln. was the preferred common solvent in prepg. triacetylated CD/
       nitroglycerin (NG) and isosorbide 5-mononitrate
       complexes. X-ray diffractometry and thermoanal. investigations
       demonstrated complex formation in solid state. Complexation considerably
       reduced the volatility, thermal and storage stability problems of the
       complexed guests. Triacetyl-.beta.-CD could be considered as a
       multiparticulate sustained release carrier matrixes
       and may be useful for the prepn. of sustained release
       drug formulations.
 L11 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER:
                           2000:275378 CAPLUS
 DOCUMENT NUMBER:
                           132:298866
 TITLE:
                          Active substance-releasing stents, their production
                           and use for prophylaxis of restenosis
 PATENT ASSIGNEE(S):
                           Schering A.-G., Germany
 SOURCE:
                           Ger. Offen., 8 pp.
                           CODEN: GWXXBX
 DOCUMENT TYPE:
                          Patent
 LANGUAGE:
                          German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
      PATENT NO.
                      KIND DATE
                                            APPLICATION NO. DATE
       -----
      DE 19849464
                       A1 20000427
                                         DE 1998-19849464 19981021
 PRIORITY APPLN. INFO.:
                                         DE 1998-19849464 19981021
     Metal or polymer stents are coated with a polymer to which
      cyclodextrin mols. are attached directly or via a linking mol. for
      binding an active substance. The active substance can be loaded on the
      cyclodextrin at any time from stent manuf. up to implantation, and
      a wide variety of active substances can be loaded onto stents in this
      manner for sustained release in vivo. Thus, a stent
     was dip-coated with a CHCl3 soln. of an NH2 group-contg.
     polyester-polyurethane to a thickness of 20 .mu.m after drying, and then
     exposed to an acid chloride deriv. of cyclodextrin. The coated
     stent was loaded with iloprost by immersion in an aq. soln. contg. 10
     ng-100 .mu.g iloprost/mL, washed, and dried.
L11 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
                         1999:196091 CAPLUS
DOCUMENT NUMBER:
                         131:35743
TITLE:
                         Release-control of a water-soluble
                         drug by film-forming trivaleryl .beta.-
                         cyclodextrin
AUTHOR (S):
                         Yamada, Masaya; Hirayama, Fumitoski; Uekama, Kaneto
CORPORATE SOURCE:
                         Department of Physical Pharmaceuticals, Faculty of
                         Pharmaceutical Sciences, Kumamoto University,
                         Kumamoto, 862-0973, Japan
SOURCE:
                         Drug Delivery System (1999), 14(1), 27-32
                         CODEN: DDSYEI; ISSN: 0913-5006
PUBLISHER:
                         Nippon DDS Gakkai Jimukyoku
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         Japanese
    Among various acylated .beta.-cyclodextrins where all hydroxyl
    groups are substituted by different acyl groups, trivaleryl .beta.-
    cyclodextrin (TV-.beta.-CyD) preferentially formed a transparent,
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adhesive thin-film. When an ethanol soln. of TV-.beta.-CyD was spread on the backing membranes such as a polyethylene terephthalate film, polyethylene film and an aluminum foil, a transparent film was formed, the film being tightly stuck on the membranes. The detaching force of TV-.beta.-CyD film was higher and the decrease in the force by the addn. of oleic acid was smaller than that of a com. silicone pressure-sensitive adhesive which is used in transdermal drug delivery system. A vasodilator, isosorbide dinitrate (ISDN), was incorporated in the TV-.beta.-CyD film in molar ratios of 1:1 and 2:1 (ISDN: TV-.beta.-CyD). The release rate of ISDN from the TV-.beta.-CyD film increased with an increase in the film area, and slightly increased by the addn. of oleic acid in the film. The plasma levels of ISDN after topical application of the TV-.beta.-CyD film contg. ISDN to abdominal skin of rats were maintained at 100 ng/mL for about 10 h. Thus, the TV-.beta.-CyD film can serve as a drug reservoir for prolonged release of water-sol. drugs in transdermal prepns.

L11 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS 1998:668084 CAPLUS ACCESSION NUMBER:

129:293887 DOCUMENT NUMBER:

An anti-spasmodic and antiinflammatory composition TITLE: containing a NSAID, pitofenone and fenpiverinium

Singh, Amarjit; Jain, Rajesh INVENTOR(S): Panacea Biotec Ltd., India PATENT ASSIGNEE(S):

Eur. Pat. Appl., 16 pp. SOURCE:

CODEN: EPXXDW DOCUMENT TYPE: Patent

English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> PATENT NO. KIND DATE APPLICATION NO. DATE
> EP 868915 A1 19981007 EP 1997-302248 19970 EP 1997-302248 19970402

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI

EP 1997-302248 PRIORITY APPLN. INFO.:

AB A compn. comprising at least one non-steroidal antiinflammatory drug, their salts, their chirally pure forms, isomers and derivs., analogs and adducts thereof and two drugs pitofenone hydrochloride and fenpiverinium bromide in a pharmaceutically acceptable combination. Diclofenac sodium at 20 .mu.g/mL increased the 0.5 $\ensuremath{\text{ng}/\text{mL}}$ fenpiverinium bromide inhibition of acetylcholine from 4.38 to 100%. A tablet contained diclofenac 46.5, pitofenone hydrochloride 5.0, fenpiverinium bromide 0.1, microcryst. cellulose 102.0, Aerosil-200 5.0, starch 50.0, povidone

1.5, magnesium stearate 1.0, talc 2.9, and Ac-di sol 10 mg. THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1998:293427 CAPLUS

DOCUMENT NUMBER: 129:8597

Embedding and encapsulation of controlled TITLE:

release particles

Van Lengerich, Bernhard H. INVENTOR(S):

Van Lengerich, Bernhard H., USA PATENT ASSIGNEE(S):

PCT Int. Appl., 63 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 9818610 A1 19980507 WO 1997-US18984 19971027 W: AU, CA, JP, NO, PL, US
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE AU 9749915 A1 19980522 AU 1997-49915 19971027 B2 20020214 A1 19990818 AU 744156 EP 1997-912825 19971027 EP 935523 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI JP 1998-520558 19971027 JP 2002511777 T2 20020416 NO 9902036 A 19990428 T2 NO 1999-2036 19990428 US 1996-29038P P 19961028 PRIORITY APPLN. INFO.: US 1997-52717P P 19970716 WO 1997-US18984 W 19971027

Controlled release, discrete, solid particles which contain an encapsulated and/or embedded component such as a heat sensitive

or readily oxidizable pharmaceutically, biol., or nutritionally active component are continuously produced without substantial destruction of the matrix material or encapsulant. A release-rate controlling component is incorporated into the matrix to control the rate of release of the encapsulant from the particles. The addnl. component may be a hydrophobic component or a high water binding capacity component for extending the **release** time. The plasticizable matrix material, such as starch, is admixed with at least one plasticizer, such as water, and at least one release -rate controlling component under low shear mixing conditions to plasticize the plasticizable material without substantially destroying the at least one plasticizable material and to obtain a substantially homogeneous plasticized mass. The plasticizer content is substantially reduced and the temp. of the plasticized mass is substantially reduced prior to admixing the plasticized mass with the encapsulant to avoid substantial destruction of the encapsulant and to obtain a formable, extrudable mixt. The mixt. is extruded though a die without substantial or essentially no expansion and cut into discrete, relatively dense particles. Release properties may also be controlled by precoating the encapsulant and/or coating the extruded particles with a film-forming component. An example of encapsulation of acetylcysteine is given using starch, polyethylene, glycerol monostearate, and vegetable 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 1998:290091 CAPLUS 129:36549

REFERENCE COUNT:

L11 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE: Neurosteroid modulation of arterial

baroreflex-sensitive neurons in rat rostral

ventrolateral medulla

AUTHOR (S): Laiprasert, J. D.; Rogers, R. C.; Heesch, C. M. CORPORATE SOURCE:

Dep. of Physiology, Ohio State University, Columbus,

OH, 42310-1218, USA SOURCE:

American Journal of Physiology (1998), 274(4, Pt. 2),

R903-R911

CODEN: AJPHAP; ISSN: 0002-9513 PUBLISHER: American Physiological Society

DOCUMENT TYPE: Journal LANGUAGE: English

The major metabolite of progesterone, 3.alpha.-OH-dihydroprogesterone (3.alpha.-OH-DHP), is the most potent endogenous pos. modulator of central nervous system GABAA receptors. Acute i.v. administration of 3.alpha.-OH-DHP to virgin female rats potentiates arterial baroreflex sympathoinhibitory responses. The current expts. tested the possibility that circulating 3.alpha.-OH-DHP potentiates central GABAergic influences in the rostral ventrolateral medulla (RVLM). The unit activity of spontaneously active, spinally projecting, and arterial pressure-sensitive neurons was recorded in the RVLM of urethane-anesthetized rats. Arterial pressure sensitivity of RVLM neurons was tested before (control) and 10 min after bolus injection (44 .mu.l i.v.) of 3.alpha.-OH-DHP (1.12 .mu.g/kg) or vehicle (40% .beta.-cyclodextrin). Both threshold pressure and satn. pressure for inhibition of RVLM neurons were decreased after acute administration of a physiol. dose of 3.alpha.-OH-DHP (1.12 .mu.g/kg i.v.), which produces plasma concns. similar to those seen during pregnancy (20-30 ng/mL), suggesting potentiated responsiveness to endogenously released GABA. Following suppression by 3.alpha.-OH-DHP, high doses of the inactive stereoisomer 3.beta.-OH-DHP (112-224 .mu.g/kg i.v.) restored unit activity, presumably by displacing 3.alpha.-OH-DHP from the neurosteroid binding site on GABAA receptors. REFERENCE COUNT: THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1997:606360 CAPLUS

DOCUMENT NUMBER:

127:267940

TITLE . Controlled-release of diltiazem by

a combination of short- and long-chain peracylated

.beta.-cyclodextrins in dogs

AUTHOR (S): Soliman, O. A.; Kimura, K.; Hirayama, F.; Uekama, K.; El-Sabbagh, H. M.; Abd El-Gawad, A. H.; Hashim, F. M. CORPORATE SOURCE:

Faculty of Pharmacy, Mansoura University, Mansoura, 35516, Egypt SOURCE:

Pharmaceutical Sciences (1996), 2(11), 533-536

CODEN: PHSCFB; ISSN: 1356-6881

PUBLISHER: Royal Pharmaceutical Society of Great Britain DOCUMENT TYPE:

Journal LANGUAGE: English

The release characteristics of diltiazem were modified by short-

and long-chain peracylated .beta.-cyclodextrins, peracetyl-.beta.-cyclodextrin (TA-.beta.-CyD) and peroctanoyl-.beta.-cyclodextrin (TO-.beta.-CyD), and their combination in different molar ratios. The release rates of diltiazem from both powder and compressed tablets consisting of diltiazem/TA-.beta.-CyD/TO-.beta.-CyD decreased in the order of diltiazem alone (t1/2 = 1 min (powder) and 1 min (tablets)) < diltiazem/TA-.beta.-CyD complex (1: 1, t1/2=9 min and 9 min) < diltiazem/TA-.beta.-CyD complex (1: 2, t1/2 = 19 min and 38 min) < diltiazem/TA-.beta.-CyD/TO-.beta.-CyD ternary system (1: 2: 0.25, t1/2=45 min and 110 min) < diltiazem/TA-.beta.-CyD/TO-.beta.-CyD ternary system (1: 2: 0.5, t1/2=140 min and > 4 h), resp. The retarded release rates of diltiazem from the TA-.beta.-CyD and TA-.beta.-CyD/TO-.beta.-CyD systems were clearly reflected in blood diltiazem levels after oral administration of tablets in dogs. With administration of the diltiazem/TA-.beta.-CyD complex (1: 2), plasma diltiazem levels of over 20 ng mL-1 were maintained for at least 24 h, and the area under plasma concn.-time curve (AUC) was 2.5-times greater than that of the drug alone. Further, the diltiazem/TA-.beta.-CyD/TO-.beta.-CyD ternary system (1: 2: 0.5) gave a const. plasma level (18-40 ng mL-1) for more than 48 h, with significant increase in AUC. These results indicate that a combination of short- and long-chain peracylated .beta.-CyDs may serve as superior carriers for the sustained release of water-sol. drugs.

L11 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1994:226984 CAPLUS

DOCUMENT NUMBER: 120:226984

TITLE: Compositions of oral nondissolvable matrixes for

transmucosal administration of medicaments

INVENTOR(S): Stanley, Theodore H.; Hague, Brian

PATENT ASSIGNEE(S): University of Utah Research Foundation, USA SOURCE: U.S., 20 pp. Cont.-in-part of U.S. 4,863,737.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

P#	ATENT NO.		KIND				ICATION		DATE
US	5 5288498		A						1000000
	4671953		Δ	19870600			985-7293 985-7293		19890905
	487520		A1	19920603			989-9094		19850501
ΕF	487520		B1	19950412		EP I	303-3094	19/	19890816
	R: AT,	BE.		FR, GB,	TΤ	T.T T.II	NI CE		
JE	05501539	•	T2	19930325	+ - ,	.TD 10	, ND, 35 989-5048	70	10000016
JF	2801050		B2	19980921		OF I.	202-3040	70	19890816
ΑU	641127		B2	19930916		Δ11 1 (989-4070	14	19890816
ΑT	120953		E			ΔT 10	989-9094	97	19890816
CA	1338978		A1	19970311		CA 10	989-6093	70	19890816
ΑU	9050352		A1	19910408			990-5035		19890905
AU	645966		A1 B2	19940203		1.	,,0 ,000	2	13030303
	493380		A1	19920708		EP 19	990-9025	84	19890905
	493380		B1	19971029				0.1	10000000
	R: AT,	ΒE,	CH, DE	, FR, GB,	IT,	LI, LU,	NL, SE		
US	5132114		Α	19920721			989-4028		19890905
JP	05501854		T2	19930408		JP 19	90-5027	79	19890905
CA	1339075		A1	19970729		CA 19	89-6103	29	19890905
AT	123628		E	19971115		AT 19	90-9025	84	19890905
WO	9103236		A1	19910321		WO 19	90-US43	69	19900803
	W: AU,	CA,	JP, NO						
7.17	RW: AT,	BE,	CH, DE	, DK, ES,	FR,	GB, IT,	LU, NL	, SE	
	90633/1		A1	19910408		AU 19	90-6337	1	19900803
	642664		B2	19931028					
	490944		A1	19920624		EP 19	90-9133	59	19900803
EP	490944		B1	19920624 19960529					
ΤD	05500058	BE,	CH, DE,	DK, ES,	FR,	GB, IT,	LI, LU	, NL,	SE
	2749198		T2	19930114		JP 19	90-51248	33	19900803
	138562		B2 E	19980513					
			E T3	19960615		AT 19	90-91335	59	19900803
	2066403		C	TARRESTORT		ES 19	90-91335		19900803
	9200565			19980414			90-20664	103	19900803
	9200193		A A	19920213			92-565		19920213
	9200858		A	19920214		DK 19	92-193		19920214
	9200855		-	19920304		NO 19	92-858		19920304
	9200854			19920410		NO 19	92-855		19920304
	9200300			19920427 19920505		MO TO	92-054		19920304
	9460697			19920505		DK 199	92-300		19920305
			V.T	19340623		AU 199	94-60697	'	19940427

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US 5855908
                              19990105
                                              US 1994-339655 19941115
PRIORITY APPLN. INFO :
                                           US 1985-729301 A2 19850501
                                           US 1987-60045
                                                            A2 19870608
                                           EP 1989-909497
                                           EP 1989-909497 A 19890816
WO 1989-US3518 W 19890816
                                           US 1989-403752 A 19890905
                                           WO 1989-US3801
                                                            A 19890905
A 19900803
                                           WO 1990-US4369
                                           US 1993-152414
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Compns. and methods of manuf. for producting a medicament compn. capable AB of absorption through the mucosal tissues of the mouth, pharynx, and esophagus are disclosed. The present invention relates to such compns. and methods which are useful in administering lipophilic and nonlipophilic drugs in a dose-to-effect manner such that sufficient drug is administered to produce precisely a desired effect. The invention also relates to manufg. techniques that enable therapeutic agents to be incorporated into nondissolvable drug containment matrixes which are capable of releasing the drug within a patient's mouth. An appliance or holder is preferably attached to the drug containment matrix. Employing the present invention the drug may be introduced into the patient's bloodstream almost as fast as through injection, and much faster than using the oral administration route, while avoiding the neg. aspects of both of these methods. The nondissolvable drug containment matrix may include permeation enhancers to increase the drug adsorption by the mucosal tissues of the mouth. The matrix compn. may also include pH buffering agents to modify the saliva pH thereby increasing the absorption of the drug through the mucosal tissues. Figures show views of some dosage forms.

L11 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1994:226981 CAPLUS

DOCUMENT NUMBER:

120:226981

TITLE: INVENTOR(S):

Compositions of oral dissolvable medicaments

Stanley, Theodore H.; Hague, Brian

PATENT ASSIGNEE(S):

University of Utah, USA

SOURCE:

U.S., 22 pp. Cont.-in-part of U.S. 4,863,737.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

P. -	ATENT NO.	- -	KIND	DATE	APPLICATION NO.	
U	S 5288497				WO 1000	
U:	S 4671953		Δ	19970600	US 1989-403751	19890905
E	P 487520		A1	19920603	US 1985-729301	19850501
	P 487520		B1	19950412	EP 1989-909497	19890816
		BE		1990U412	T, LI, LU, NL, SE	
JI	05501539)	T2	19930325	r, LI, LU, NL, SE	
JΙ	2801050		B2	19980921	JP 1989-504878	19890816
ΑĮ	J 641127		B2	19930921		
ΓA	120953		F	19950415	AU 1989-40704	
CA	1338978		Δ1	19970311	AT 1989-909497	19890816
ΑU	J 9050352		Δ1	199/0311	CA 1989-609378	19890824
ΑU	J 645966		B2	19910408	AU 1990-50352	19890905
EP	493380		Δ1	19910408 19940203 19920708	77	
ΕP	493380		R1	19971029	EP 1990-902584	19890905
	R: AT,	BE.	CH. DE	179/1029	, LI, LU, NL, SE	
JP	05501854		Т2	19930409	US 1989-402881	19890905
CA	1339075		Δ1	19970720	JP 1990-502779	19890905
AT	159658		E	19971115	CA 1989-610329	19890905
WO	9103237		A1	19910321	AT 1990-902584	19890905
	W: AU,	CA.	JP. NO	10010021	US 1989-402881 JP 1990-502779 CA 1989-610329 AT 1990-902584 WO 1990-US4384	19900803
	RW: AT,	BE.	CH. DE	חג בכ בם	CD III III	
AU	645265		B2	19940113	AU 1990-62877	19900803
ΕP	490916		Al	19920624	ED 1000 010	
ΕP	490916		B1	19951018	AU 1990-62877 EP 1990-912733	19900803
	R: AT,	BE,	CH. DE	. DK. ES ED	, GB, IT, LI, LU, NL,	
JΡ	05503917					
ΕP	630647		A1	19941228	JP 1990-512229 EP 1994-111352	19900803
	630647					
	R: AT,	BE,	CH, DE.	DK ES FR	, GB, IT, LI, LU, NL,	
ΑT	129148		Ē	19951115	AT 1990-912733	SE
ES	2077686		T 3	19951201	AT 1990-912733 ES 1990-912733	19900803
CA	2066423		C	19980414	CD 1000 2066422	19900803
ΑT	177007		E	19990315	ES 1990-912733 CA 1990-2066423 AT 1994-111352 ES 1994-111352 NO 1992-565	19900803
ES	2133448		T3	19990916	FS 1994-111352	19900803
NO	9200565		Α	19920213	NO 1992-565	19900803
					1992-365	19920213

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DK 9200193 A 19920214 DK 1992-193 19920214
NO 9200857 A 19920406 NO 1992-857 19920304
NO 9200855 A 19920410 NO 1992-855 19920304
DK 9200300 A 19920505 DK 1992-854 19920304
AU 9455218 A1 19940428 AU 1994-55218 19940218
AU 668004 B2 19960418
AU 9460697 A1 19940623 AU 1994-60697 19940427
US 5824334 A 19981020 US 1996-636829 19960418
        AU 668004
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Al 19940623
US 5824334
A 19981020
US 5783207
A 19980721
US 5785989
RITY APPLN. INFO.:

US 1985-729301
US 1987-60045
EP 1989-909497
WO 1989-US3518
W 19890905
WO 1989-US3801
A 19890905
  PRIORITY APPLN. INFO.:
                                                      WO 1989-US3801 A 19890905
EP 1990-912733 A3 19900803
WO 1990-US4384 A 19900803
                                                      US 1993-152396 B1 19931112
US 1994-333233 B2 19941102
US 1995-439127 B1 19950511
        Compns. and methods of manuf. for producing a medicament compn. capable of
        absorption through the mucosal tissues of the mouth, pharynx, and
        esophagus are disclosed. The present invention relates to such compns.
        and methods which are useful in administering lipophilic and nonlipophilic
        drugs in a dose-to-effect manner that sufficient drug is administered to
        produce precisely a desired effect. The invention also relates to a
        manufg. technique that enables a therapeutic agent or drug to be
        incorporated into a flavored dissolvable matrix. An appliance or holder is preferably attached to the dissolvable matrix. Employing the present
        invention the drug may be introduced into the patient's bloodstream almost
        as fast as through injection, and much faster than using the oral
        administration route, while avoiding the neg. aspects of both of these methods. The present invention achieves these advantages by incorporating
       the drug into a carbohydrate, fat, protein, wax, or other dissolvable
       matrix compn. The dissolvable matrix may include permeation enhancers to
       increase the drug absorption by the mucosal tissues of the mouth. The
       matrix compn. may also include pH buffering agents to modify the salival
       pH thereby increasing the absorption of the drug through the mucosal
       tissue. Methohexital sodium was incorporated into a dissolvable matrix
       including citric acid; ribotide; Compritol 888; aspartame; vanilla, wild
       cherry, and peppermint microcapsules; compressible sugar; and
       maltodextrin.
L11 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1993:567775 CAPLUS
                                119:167775
TITLE:
                                Nonirritating nitroglycerin oral
                                preparations
INVENTOR(S):
                                Sawai, Kiichi; Kurono, Masatsune; Kondo, Yasuaki;
                                 Sato, Makoto; Sugimoto, Manabu
PATENT ASSIGNEE(S): Sanwa Kagaku Kenkyusho Co, Japan
                                Jpn. Kokai Tokkyo Koho, 5 pp.
                                CODEN: JKXXAF
DOCUMENT TYPE:
                                Patent
LANGUAGE:
                                Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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DOCUMENT TYPE:
LANGUAGE:

Patent

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 05163140 A2 19930629 JP 1991-333615 19911217

PRIORITY APPLN. INFO.:

AB The title pharmaceutical compns. for e.g. sublingual application are manufd. by dissolving or dispersing nitroglycerin and nitroglycerin-compatible carriers (e.g. fructose) in a medium and adsorbing the soln. or dispersion on a high mol.-wt. substance (e.g. hyphoxypropyl cellulose). The prepns. are free of unpleasant and irritating taste and stable and show excellent controlled-
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L11 ANSWER 11 OF 17

ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
Bioavailability of leuprolide acetate following nasal and inhalation delivery to rats and healthy humans Adjei, Akwete; Sundberg, Dean; Miller, James; Chun, Alexander

CORPORATE SOURCE:
CAPLUS COPYRIGHT 2003 ACS

L992:158690
Bioavailability of leuprolide acetate following nasal and inhalation delivery to rats and healthy humans Adjei, Akwete; Sundberg, Dean; Miller, James; Chun, Alexander
Pharm. Prod. Div., Abbott Lab., North-Chicago, IL,
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60064, USA

SOURCE: Pharmaceutical Research (1992), 9(2), 244-9

CODEN: PHREEB; ISSN: 0724-8741

DOCUMENT TYPE: Journal LANGUAGE: English

Systemic delivery of leuprolide acetate, a LH releasing hormone (LHRH) agonist, was compared after inhalation (i.h.) and intranasal (i.n.) administration. The i.n. bioavailability in rats was significantly increased by .alpha.-cyclodextrin (CD), EDTA, and soln. vol. Intraanimal variability was 30-60%, and absorption ranged from 8 to 46% compared to i.v. controls. Studies in healthy human males were conducted with leuprolide acetate i.n. by spray, or inhalation aerosol (i.h.), and s.c. and i.v. injections. The s.c. injection was 94% bioavailable compared with i.v. The i.n. bioavailability averaged 2.4%, with significant subject-to-subject variability. Plasma peak concns. (Cmax) with 1- and 3-mg dosages ranged between 0.24-1.6 and 0.10-11.0 ng/mL, resp. The low human bioavailability may be due to phys. loss of drug down the oral cavity and differences between human and rat nasal mucosa. Inhalation delivery gave a slightly lower intersubject variability. Mean Cmax with a 1-mg dose of soln. aerosol was 0.97 ng/mL, compared with 4.4 and 11.4 ng/mL for suspension aerosols given at 1- and 2-mg bolus dosages, resp. The mean bioavailability of the suspension aerosols (28% relative to s.c. administration) was 4-fold greater than that of the soln. aerosol (6.6%), suggesting that LHRH analogs may be delivered systemically via the lung as aerosol dispersions.

L11 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1991:542119 CAPLUS

DOCUMENT NUMBER: 115:142119

TITLE: Effect of .beta.-cyclodextrins on

sustained release of

nitroglycerin from ointment bases AUTHOR (S):

Tomono, Kazuo; Gotoh, Hiroko; Okamura, Makoto; Horioka, Masayoshi; Ueda, Haruhisa; Nagai, Tuneji CORPORATE SOURCE:

Coll. Pharm., Nihon Univ., Chiba, 274, Japan SOURCE . Yakuzaigaku (1991), 51(1), 22-8

CODEN: YAKUA2; ISSN: 0372-7629 DOCUMENT TYPE:

Journal LANGUAGE: Japanese

The effect of .beta.-cyclodextrin (.beta.-CyD) and water-sol. .beta.-cyclodextrin-epichlorohydrin polymer (CDPS) on release behavior of nitroglycerin (TNG) from ointment base were investigated in comparison with that of TNG alone. In order to evaluate their percutaneous absorption, samples were applied to the shaved back skin of rabbits. It was found that TNG/.beta.-CyD complex of ointment showed the longest depression of blood pressure, and also maintained at a plateau for 8 h after application in plasma TNG level. This in vivo result was consistent with those of the in vitro dissoln. expt. It was suggested that TNG/.beta.-CyD complex might be applicable to sustained-release prepns. for percutaneous administration.

L11 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1991:192366 CAPLUS

DOCUMENT NUMBER: 114:192366

TITLE: Effect of diethyl .beta.-cyclodextrin on the release of nitroglycerin from formulations

AUTHOR(S): Umemura, Masashi; Ueda, Haruhisa; Tomono, Kazuo;

Nagai, Tsuneji

CORPORATE SOURCE: Fac. Pharm. Sci., Hoshi Univ., Tokyo, 142, Japan SOURCE: Drug Design and Delivery (1990), 6(4), 297-310

CODEN: DDDEEJ; ISSN: 0884-2884

DOCUMENT TYPE: Journal LANGUAGE: English

The complex-forming abilities of 2,6-di-O-ethyl-.beta.cyclodextrin (DE-.beta.-CD), and its effect on the release of nitroglycerin (TNG) from formulations of the compd., were studied and compared with corresponding properties of .beta.cyclodextrin (.beta.-CD) and 2,6-di-O-methyl-.beta.cyclodextrin (DM-.beta.-CD). Complex formation was confirmed by DSC and IR absorption spectroscopy. In an accelerator test involving temp. and reduced pressure, marked depression of the volatility of TNG was obsd. as a result of CD complex formation. Dissoln. rats of TNG from powdery ${\tt TNG/DE-.beta.-CD}$ complex and its tablets were retarded in comparison with the rates from other CD complexes. The release rate of TNG from ointments was accelerated by complexation with DE-.beta.-CD, and retarded by complexation with .beta.-CD. To evaluate their in vivo percutaneous absorption, samples were applied to the inside tip of the check pouch of male golden hamsters. The amt. of TNG remaining

in the cheek pouch was lowest in the case of the TNG/DE-.beta.-CD complex ointment, and relatively high in the case of the TNG/.beta.-CD complex ointment, in agreement with the in vitro results. The combination of DE-.beta.-CD complex and .beta.-CD complex might be applicable to sustained-release prepns. for percutaneous administration.

L11 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:25671 CAPLUS DOCUMENT NUMBER:

112:25671 TITLE:

Pharmaceuticals for intranasal administration INVENTOR(S): Sawai, Kiichi; Kurono, Masatsune; Kato, Bunkichi PATENT ASSIGNEE(S): Sanwa Kagaku Kenkyusho Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 5 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 01117825 A2 19890510 ------JP 1987-272595 19871028 9 1987-272595 19871028 PRIORITY APPLN. INFO.: JP 1987-272595 AB Intranasal formulations contain pharmaceuticals (antibiotics, hormones, psychotropics, etc.), absorption control agents (

cyclodextrin, lactose, CM-cellulose, etc.), and fillers (Macrogol, glycerogelatins, etc.) which dissolve slowly at body heat. These formulations release the pharmaceuticals at a const. rate for a long time. Thus, 2 .times. 106 IU interferon was adsorbed on 50 mg cyclodextrin, dispersed in Macrogol, and made into a powder. An app. for the intranasal administration is shown by diagrams.

L11 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1988:173559 CAPLUS

DOCUMENT NUMBER: 108:173559

TITLE . Sustained-release transdermal

preparations of 2-nitroxymethyl-6-chloropyridine and

its cyclodextrin inclusion compounds as

vasodilators

INVENTOR(S): Ueda, Yoshio; Asakura, Sotoo; Murakami, Yoshio;

Shimojo, Fumio; Kado, Kazutake

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan SOURCE:

Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE EP 241806 A1 19871021 EP 1987-104782 19870401 R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE US 4749574 A 19880607 US 1987-32628 19870401 JP 63045219 A2 19880226 JP 1987-85950 19870408 US 1987-85950 19870400 19860414 JP 63045219
PRIORITY APPLN. INFO.:

CASREACT 108:173559

Charal pharmaceut JP 1986-86589

Sustained-release transdermal pharmaceuticals contain 2-nitroxymethyl-6-chloropyridine (I) or its inclusion compds. with .beta.cyclodextrin, which are prepd. 2-Hydroxymethyl-6-chloropyridine was treated with fuming HNO3 to give I, which was treated with .beta.cyclodextrin to give the 1:1 (II) or 3:1 I-.beta.-cyclodextrin inclusion compd. II (1.3 kg) was coated onto 1.0 kg nonpareil using a 715 g 50% sucrose soln. as a binder. The granules (200 g) were coated with Eudragit E30D 89.0 , talc 6.6, PEG-6000 1.8, and water 171.0 g, to give 235.3 g dried product, which (77 mg; 5 mg as I) was added to agar 40 mg, water 700~mL, and glycerol 300 mg. The dispersion was was cast into an 0.2 cm-deep mold with a diam. of 2.5 cm and allowed to stand at room temp. to give a sustained-release transdermal

delivery pad. In rats, this pad gave blood level of I of 13-18 ng/mL for 24 h (except for 32 ng/mL I at 20 h).

L11 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1986:578359 CAPLUS

DOCUMENT NUMBER: 105:178359

TITLE: Tableting of a nitroglycerin inclusion compound and investigation of the sustained-

release tablets

AUTHOR (S): Kata, Mihaly; Wayer, Maria; Szabo Revesz, Piroska; Kedvessy, Gyorgy; Stadler-Szoke, Agnes; Szejtli,

CORPORATE SOURCE:

SOURCE:

Pharm.-Chem. Werk, CHINOIN A.-G., Budapest, Hung. Acta Pharmaceutica Hungarica (1986), 56(4), 157-63

CODEN: APHGAO; ISSN: 0001-6659

DOCUMENT TYPE:

Journal

LANGUAGE: German

 ${\tt Tablets\ contg.\ nitroglycerin-.beta.-cyclodextrin}$ complex (I) [58195-87-2] were prepd. with a nitroglycerin content of 13.4% by using excipients, lactose, Avicel PH 101, Mg stearate and Aerosil R 972. The phys. properties of the tablets, disintegration time, compression strength and abrasion loss were detd. The drug (100%) was dissolved after 8-9 min from the complex, while only 80-85% drug dissolved from the com. tablets in 8-9 min. The release of the drug from the complex tablets was studied by using propeller-stirrer and USP XXmethods. After 1 h stirring 60 and 50% drug dissolved (propeller and USP XX methods., resp.). The tablets showed delayed-release behavior. Tests of tablets heat treated at 50.degree. showed that the drug content of the I tablets was between 96 and 104% and did not decrease. The com. tablets, however, showed only 96.2% of the declared content; the content after 1 day was 35% and after 2 days decreased to 30%.

L11 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

1982:11681 CAPLUS

96:11681

PATENT ASSIGNEE(S):

Drug-containing bandages

SOURCE:

Nitto Electric Industrial Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	- -			
JP 56123912	A2	19810929	JP 1980-28404	19800305
JP 02040645	B4	19900912		10000303

PRIORITY APPLN. INFO.: JP 1980-28404 19800305

Bandages contg. drugs like nitroglycerin [55-63-0] (a vasodilator) are prepd. using inclusion agents such as cyclodextrin and adhesive polymers which release the drugs over a prolonged period. Thus, 12 mL acetone contg. 6 g nitroglycerin was slowly added to 700 mL water contg. 40 g .beta.-cyclodextrin [7585-39-9] at 70 degree. to produce a white ppt. which was isolated and dried to obtain a powdery inclusion compd. (35 g) contg. 12.3 wt. % nitroglycerin. This product (25 parts) was added to 75 parts ethylene-vinyl acetate copolymer [24937-78-8] which had been dissolved in CHCl3, and the mixt. was spread over (80 .mu. thick) on a film and dried to obtain a bandage.

L18 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

1997:558022 CAPLUS

TITLE:

Skin and dentifrice compositions containing

oil-soluble substances or peptides

Takei, Masumi INVENTOR(S):

PATENT ASSIGNEE(S):

NOEVIR Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

127:267835

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE

PATENT NO. KIND DATE JP 1996-48251 19960208 19960208 -----JP 09216810 A2 19970819

PRIORITY APPLN. INFO.:

JP 1996-48251

AB Title compns. contain .gtoreq.1 cyclodextrin polymer tubes that include oil-sol. substances or peptides. The compns. show improved stability and controlled-release of biol. active

substances or peptides. A skin lotion contg. EtOH 5.0, hydroxyethyl

cellulose 1.0, squalane-.beta.-cyclodextrin inclusion compd.

20.0, .alpha.-hydroxystearic acid-.alpha.-

cyclodextrin inclusion compd. 10.0, and H2O 64.0 wt.% was stable

at 25.degree. for 3 mo.

L18 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1995:617508 CAPLUS

DOCUMENT NUMBER: TITLE:

123:1295 17.beta.-Estradiol stimulates prostacyclin,

but not endothelin-1, production in human vascular

endothelial cells

AUTHOR (S):

Mikkola, Tomi; Turunen, Pertti; Avela, Kristiina; Orpana, Arto; Viinikka, Lasse; Ylikorkala, Olavi

Departments of Obstetrics and Gynecology and Clinical CORPORATE SOURCE:

Chemistry, University of Helsinki, Helsinki, SF-00290,

Finland

SOURCE:

PUBLISHER:

Journal of Clinical Endocrinology and Metabolism

(1995), 80(6), 1832-6

CODEN: JCEMAZ; ISSN: 0021-972X

Endocrine Society

DOCUMENT TYPE:

Journal

English LANGUAGE:

The exact mechanisms by which estrogens protect against occlusive vascular disorders are not known. One possibility could be an effect on vascular endothelial vasoactive compds., such as vasodilatory prostacyclin

(PGI2) and vasoconstrictory endothelin (ET-1). Here we report on the effect of 17.beta.-estradiol on the synthesis of PGI2 and ET-1 in cultured human umbilical vein endothelial cells. These cells were incubated in the

absence (control) and presence of 17.beta.-estradiol (0.001-1 .mu.mol/L) for 3-24 h with serum (10%) or without serum. The

release of PGI2, as assessed by its metabolite 6-ketoprostaglandin F1.alpha., and that of ET-1, were assessed

by RIA. 17.beta.-Estradiol (0.01-0.1 .mu.mol/L) predissolved in ethanol (final concn., 0.01%) increased PGI2 prodn. by 26-30% in endothelial cells incubated without serum. This increase in PGI2 prodn. was enhanced up to 66% when 17.beta.-estradiol (1 .mu.mol/L) was encapsulated within .beta.cyclodextrin. The stimulation of PGI2 prodn. was detectable after 12 h of incubation. The 17.beta.-estradiol-induced stimulation of PGI2 prodn. was blocked in dose-dependent manner by antiestrogenic tamoxifen.

17.beta.-Estradiol failed to affect the prodn. of PGI2 if the endothelial cells were incubated with serum and had no effect on ET-1 prodn. under any conditions. 17.beta.-Estradiol-induced stimulation of vasodilatory and antiaggregatory PGI2 prodn. without a concomitant change in

vasoconstrictory ET-1 prodn. may provide one explanation for the ability of estradiol to maintain vascular health and protect against vascular

disorders.

L18 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS 1988:411740 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

109:11740

TITLE:

Heat- and water-sensitive amphiphilic polymeric adhesive as base for transdermal drug delivery

INVENTOR(S):

Shikinami, Yasuo; Sasatani, Seiei

PATENT ASSIGNEE(S):

Takiron Co., Ltd., Japan; Ono Pharmaceutical Co., Ltd.

SOURCE:

Eur. Pat. Appl., 80 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 245858	A2	19871119	EP 1987-106969	19870514
EP 245858	A3	19900411		
EP 245858	B1	19920729		
R: AT, BE,	CH, DE	, ES, FR, GB	, GR, IT, LI, LU, NL	, SE
JP 63146812	A2	19880618	JP 1987-83772	19870407
JP 07025666	B4	19950322		
AT 78706	E	19920815	AT 1987-106969	19870514
ES 2043619	T3	19940101	ES 1987-106969	19870514
PRIORITY APPLN. INFO	. :		JP 1986-108633	19860514
			JP 1987-83772	19870407
			EP 1987-106969	19870514

An adhesive for transdermal drug delivery contains a base component mainly comprising a heat- and water-sensitive amphiphilic polymer; the drug is incorporated into the base layer. The polymer is a block copolymer with hydrophilic and hydrophobic segments which allows a broad range of liq. or solid hydrophilic or hydrophobic drugs to be stably dissolved or dispersed. A block copolymer was prepd. which contained segments of poly-.epsilon.-caprolactone (mol. wt. 530), polypropylene glycol (mol. wt. 400), polyethylene glycol (mol. wt. 1000), and hexamethylene diisocyanate; it had a m.p. of 36-37.degree. The polymer (100 mg) was melted and 3.333 mg .alpha.-cyclodextrin-clathrated 17S, 20-dimethyl-trans-.DELTA.2-PGE1 was blended and dispersed therein. The drug-contg. polymer did not change when stored sealed under vacuum for 6 mo. at .ltoreq.25.degree.. The mixt. was covered with a porous membrane of phase-sepd. crosslinked gelatin-dextran and reinforced with nylon tricot mesh; on human skin, this compn. released 60-70% of the drug in 72 h, indicating the release pattern had a relatively uniform gradient. When this device was applied to spontaneously hypertensive rats at 1 mg/kg, the blood pressure was decreased for .gtoreq.24 h, whereas a conventional PGE ointment did not provide a sustained effect.

L18 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: DOCUMENT NUMBER: 1988:401387 CAPLUS

TITLE:

Effects of analogs of thromboxane A2 and prostacyclin on calcium-45 release from

neonatal mouse calvaria

AUTHOR(S): Saitoh, Shigeru

CORPORATE SOURCE:

SOURCE:

Sch. Dent., Showa Univ., Yamanashiken, Japan Showa Shigakkai Zasshi (1987), 7(2), 147-53

CODEN: SSZADC; ISSN: 0285-922X

DOCUMENT TYPE: LANGUAGE: Journal English

109:1387

Effects of the TXA2 analog 9,11-epithio-11,12-methano-TXA2 (STA2) and the PGI2 analog 5(E)-6,9-deoxa-6,9.alpha.-methylene-15-cyclopentyl-16,17,18,19,20-pentanor-PGI2 .alpha.-cyclodextrin clathrate (OP 41483) on bone resorption were studied in vitro in comparison with that of PGE2. In measuring the release of 45Ca under culture, using 45Ca previously incorporated in neonatal mouse calvaria as an indicator, an increase in the release of 45Ca was obsd. only at high doses such as 10-5 M and 10-4 M of both STA2 and OP 41483. This bears a close resemblance to the resorptive conditions in the concn. range of PGE2, known as a strong bone resorptive factor, from 10-8M to 10-5 M. PGE2, STA2, and OP 41483 have a resorption potency ratio of approx. 100:3:1. In a time-course study followed for observing the activities responsible for bone resorption of these 3 reagents at 6, 24, 48, and 72 h, each of the reagents used showed a linear increase with the passage of time. In the expt. measuring cAMP, the culturing time was limited to 10 min because of its activity time being very short and the reagents (PGE2, STA2, and OP 41483) in a concn. 10 times as high as that of those used in other five expts. were used. As a result, it was indicated that cAMP prodn. level of PGE2, STA2, and OP 41483 was almost the same, but was significantly high as compared with that of the group of controls (no reagent added), though it did not reach that of parathyroid hormone (PTH). Imidazole known as a blocker of thromboxane synthesis has an inhibitory effect on both basal bone resorption and PTH-induced bone resorption, but the addn. of STA2 and OP 41483 overcame the inhibitory effect of this substance and resulted in an effect on bone resorption. This phenomenon was almost identical to the effect produced when PGE2 was added. Examn. of the inhibitory effect on resorption of calcitonin (CT) demonstrated that it inhibits not only the resorption of basal bone, but also the bone resorption induced by STA2, OP 41483, or

PGE2. The above data suggest the TXA2 and PGI2 may be responsible for

bone resorption and similar in mechanism to PGE2.

L18 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1983:40477 CAPLUS DOCUMENT NUMBER: 98:40477 Release control of TITLE: 16,16-dimethyl-trans-.DELTA.2-prostaglandin El methyl ester by cyclodextrin complexation Hirayama, Fumitoshi; Otagiri, Masaki; Uekama, Kaneto; AUTHOR (S): Wakuda, Toru; Inaba, Kohji Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan Kobunshi Ronbunshu (1982), 39(10), 643-8 CORPORATE SOURCE: SOURCE: CODEN: KBRBA3; ISSN: 0386-2186 DOCUMENT TYPE: Journal LANGUAGE: Japanese Inclusion complexes of 6,16-dimethyl-trans-.DELTA.2-prostaglandin E1 Me ester (ONO-802) with .alpha.-, .beta.-, and .gamma.-cyclodextrin (.alpha.-, .beta.-, and .gamma.-CyD) in water and in solid state were studied by the soly, method and by powder x-ray diffractometry. The stability consts. of the complexes increased in the order of .beta.-CyD-ONO-802 > .alpha.-CyD-ONO-802 > .gamma.-CyD-ONO-802. Solid complexes of ONO-802 with .beta.- and .gamma.-CyD in a molar ratio of 1:2 (ONO-802:2CyD) were prepd. on the basis of the phase soly. diagram, and their soln. in water, permeation through a cellophane membrane, and release from a suppository base (Witepsol H-15) were examd. and compared with those of ONO-802 alone. The apparent rates of soln. and permeation of ONO-802 were significantly higher with the inclusion complexes (.beta.-CyD-ONO-802 > .gamma.-CyD-ONO-802 > ONO-802 alone). Inclusion complexation was also effective in releasing ONO-802 from the suppository base (release rate: .beta.-CyD-ONO-802 > .gamma.-CyD-ONO-802 > ONO-802 alone). L18 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS 1982:498366 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 97:98366 Stabilized, prostaglandin-containing tablets TITLE: with a controlled rate of solubility, for local use David, Agoston; Horvath, Tibor; Kiss, Csaba; Nagy, INVENTOR(S): Gabor; Simon, Kalman; Simonidesz, Ilona; Udvardi, Agnes; Virag, Sandor Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt., PATENT ASSIGNEE(S): Hung. U.S., 4 pp. SOURCE: CODEN: USXXAM Patent DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. DATE PATENT NO. KIND DATE _____ US 1981-225361 19810115 US 4335097 Α 19820615 EP 56065 A1 19820721 B1 19840404 EP 1981-100140 19810110 EP 56065 R: BE, CH, DE, FR, GB, IT, NL, SE JP 1981-3936 19810116 JP 57123113 A2 19820731 JP 01053251 B4 19891113 JP 01053251 PRIORITY APPLN. INFO.: US 1981-225361 19810115 Stable prostaglandin tablets for cervical and sublingual administration consist of 1 or more prostaglandins (0.2-20), a nontoxic buffer (0.4-40), stearic acid [57-11-4] (1-50), metal stearate (0-15), lactose (10-95), granulation aid, disintegrants and flavoring substances. The nontoxic buffer adjusts the pH (3-5) of the liq. film formed on the surface of the solid phase under the influence of air humidity. Further, by adjusting the ratio of stearic acid and alkali earth metal stearates the ratio of release of the active ingredient can be controlled. Thus, sublingual tablets were prepd. contg. prostaglandin F2.alpha. (PGF2. alpha.) [551-11-1] 0.2, lactose 42.98, poly(vinylpyrrolidone) 2.33, Na citrate [68-04-2] 0.1, citric acid [77-92-9] 0.1, stearic acid 1.67, Ca stearate [1592-23-0] 0.42, aroma .beta.-cyclodextrin inclusion complex 1.2, and saccharin 1.0 mg. PGF2.alpha. was dissolved in a large excess of EtOH, the soln. dild with H2O and the homogeneous mixt. $\stackrel{-}{\text{of}}$ the components was granulated using this soln. and pressed into tablets. The tablets were administered to women in labor. The cervical canal became smoother and the spontaneous retractions of the womb were increased.

L18 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1975:465479 CAPLUS

DOCUMENT NUMBER:

83:65479

TITLE:

Prostaglandin granules

INVENTOR(S):

Suetani, Tamotsu; Inaba, Koji

PATENT ASSIGNEE(S): SOURCE:

Ono Pharmaceutical Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 50035319 A2 19750404 JP 1973-86663 19730801

RITY APPLN. INFO.: JP 1973-86663 19730801

PRIORITY APPLN. INFO.:

AB Two or more kinds of prostaglandin granule contg. different

proportions of wax (b.p. 50-70.degree.), satd. fatty acid, long chain alc. and a disintegrating agent (<100 mesh) were prepd. and mixed to produce a product capable of regulating blood prostaglandin level. Thus, granules A contained beeswax 2.0, stearic acid 28.0, Ca cellulose gluconate 10.0, and PGF2.alpha.-cyclodextrin compd. [55648-21-0] 1.5 g, and granules B contained beeswax 5.0, stearic acid 25.0, Ca cellulose gluconate 5.0, and PGF2.alpha.cyclodextrin compd. 1.5 g. A mixt. of A (400 mg) and B (1600 mg) granules produced a blood PGF2.alpha. (I) [551-11-1] peak at 1.5-3 hr after administration.

10/021,221

ACCESSION NUMBER:

1.5

ANSWER 1 OF 6 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:196091 CAPLUS

131:35743

DOCUMENT NUMBER:

1999:784146 CAPLUS

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DOCUMENT NUMBER:
                            132:40532
                            Acylated alkylated cyclodextrin
TITLE:
                            and their use as carriers for drugs
                            Uekama, Kaneto; Hirayama, Fumitoshi; Kondo,
Akira; Kawaji, Hiroshi; Ohta, Masaaki; Okamoto,
INVENTOR(S):
                            Yasuhiro
                            Janssen Pharmaceutica N.V., Belg.
PATENT ASSIGNEE(S):
                            PCT Int. Appl., 35 pp.
SOURCE:
                            CODEN: PIXXD2
DOCUMENT TYPE:
                            Patent
                            English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                        KIND DATE
                                               APPLICATION NO. DATE
     PATENT NO.
                                               WO 1999-JP2806 19990527
                               19991209
     WO 9962958
                        A1
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
              JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
              MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,
              RU, TJ, TM
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
              ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                           AU 1999-39547
                                                                    19990527
     AU 9939547
                    Al 19991220
                                                EP 1999-922527 19990527
                         A1
                               20010321
     EP 1084149
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO
                                             JP 2000-552168 19990527
JP 1998-164465 A 19980529
WO 1999-JP2806 W 19990527
     JP 2002517521
                        T2 20020618
PRIORITY APPLN. INFO.:
     Cyclodextrin derivs. having at least one lower alkyl group and
     at least one C2-20 alkanoyl group in the mol. are disclosed, and
     pharmaceutical prepns. wherein the derivs. and a drug are in such a state
     that they are closely compounded are also disclosed. These
     cyclodextrin derivs. have low hemolytic activity.
                                   THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                   RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 2 OF 6 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
                            1999:330015 CAPLUS
                            130:343037
DOCUMENT NUMBER:
                            Acylated cyclodextrin-containing
TITLE:
                            trans-mucosal or transdermal pharmaceutical
                            composition
                            Uekama, Kaneto; Hirayama, Fumitoshi; Kondo,
INVENTOR (S):
                            Akira; Ohta, Masaaki; Okamoto, Yasuhiro; Kunihiro,
                            Haruo
                            Janssen Pharmaceutica, N.V., Belg.
PATENT ASSIGNEE(S):
SOURCE:
                            U.S., 9 pp.
                            CODEN: USXXAM
DOCUMENT TYPE:
                            Patent
                            English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                APPLICATION NO. DATE
                       KIND DATE
      PATENT NO.
       JS 5904929 A
                               ------
                                                 ______
                               19990518
                                                US 1997-886934 19970702
      US 5904929
PRIORITY APPLN. INFO.:
                                             US 1997-886934
                                                                    19970702
      A pharmaceutical compn. for trans-mucosal or transdermal administration
      wherein a per-C2-18 acylated cyclodextrin is used as a
      drug reservoir or carrier is disclosed. The compn. can be used safely and
      exhibits excellent drug release behavior. Tablets administrable to oral
      mucosa contained triamcinolone 5, pervaleryl-.beta.-cyclodextrin 20, lactose 17, Avicel PH102 7.5, HPMC 2.5 mg, and trace amt. of magnesium
      stearate. The tablets were good in adhesion to the cheek, and adhesion
      was durable. Further, there was no irritation to mucosa at the time of application. Formulation of transdermal compns. are also disclosed.
                                   THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
                                   RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS
```

TITLE: Release-control of a water-soluble drug by film-forming trivaleryl .beta.-cyclodextrin AUTHOR (S): Yamada, Masaya; Hirayama, Fumitoski; Uekama,

Kaneto

Department of Physical Pharmaceuticals, Faculty of CORPORATE SOURCE:

Pharmaceutical Sciences, Kumamoto University,

Kumamoto, 862-0973, Japan

SOURCE: Drug Delivery System (1999), 14(1), 27-32

CODEN: DDSYEI; ISSN: 0913-5006 Nippon DDS Gakkai Jimukyoku

PUBLISHER: DOCUMENT TYPE: Journal LANGUAGE:

Japanese Among various acylated .beta.-cyclodextrins where all hydroxyl groups are substituted by different acyl groups, trivaleryl .beta.-cyclodextrin (TV-.beta.-CyD) preferentially formed a transparent, adhesive thin-film. When an ethanol soln. of TV-.beta.-CyD was spread on the backing membranes such as a polyethylene terephthalate film, polyethylene film and an aluminum foil, a transparent film was formed, the film being tightly stuck on the membranes. The detaching force of TV-.beta.-CyD film was higher and the decrease in the force by the addn. of oleic acid was smaller than that of a com. silicone pressure-sensitive adhesive which is used in transdermal drug delivery system. A vasodilator, isosorbide dinitrate (ISDN), was incorporated in the TV-.beta.-CyD film in molar ratios of 1:1 and 2:1 (ISDN: TV-.beta.-CyD). The release rate of ISDN from the TV-.beta.-CyD film increased with an increase in the film area, and slightly increased by the addn. of oleic acid in the film. The plasma levels of ISDN after topical application of the TV-.beta.-CyD film contg. ISDN to abdominal skin of rats were maintained at 100 ng/mL for about 10 h. Thus, the TV-.beta.-CyD film can serve as a drug reservoir for prolonged release of water-sol. drugs in transdermal prepns.

ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1998:729652 CAPLUS

DOCUMENT NUMBER: 130:114879

TITLE: Improvements of gastrointestinal absorption and

lymphatic transfer of cyclosporin A by various

cyclodextrins AUTHOR (S):

Miyake, Kouzou; Irie, Tetsumi; Hirayama, Fumitoshi;

Uekama, Kaneto

CORPORATE SOURCE: Department of Physical Pharmaceutics, Faculty of

Pharmaceutical Sciences, Kumamoto University,

Kumamoto, 962-0973, Japan

Drug Delivery System (1998), 13(5), 369-375

CODEN: DDSYEI; ISSN: 0913-5006 Nippon DDS Gakkai Jimukyoku

DOCUMENT TYPE: Journal Japanese

SOURCE:

PUBLISHER:

The soly. of cyclosporin A (CYA), an immunosuppressive drug, in water increased with a rise in hydrophilic cyclodextrin (CyD) concns., forming higher-order complexes. The solubilizing ability of hydrophilic CyDs for CYA increased in the order .gamma.-Cyd < .beta.-Cyd < .alpha.-Cyd .mchlt. 2,6-dimethyl-.beta.-Cyd (DM-.beta.-Cyd) .apprxeq. DM-.alpha.-CyD. The oral bioavailability of CYA was increased about 4.5-fold by the complexation with DM-CyDs, and the variation of CYA absorption from gastrointestinal tracts was significantly decreased. On the other hand, the lymphatic transfer of CYA was hardly affected by the hydrophilic CyDs including DM-CyDs. Acylated .beta.-CyDs with all hydroxyl groups of .beta.-CyD substituted with acetyl, butanoyl and octanoyl groups, were used as slow release carriers for CYA. When CYA/acylated .beta.-CyDs complexes were administered orally, both plasma and lymph concns. of CYA were prolonged up to at least 36 h, although the bioavailability decreased particularly for the butanoyl and octanoyl .beta.-CyDs complexes. Interestingly, triacetyl-.beta.-CyD complex increased both plasma and lymph concns. of CYA compared with drug alone. The oral administration of CYA as an olive oil soln. significantly enhanced the lymph levels of CYA. The CYA/olive oil soln. in combination with HP-CyDs, esp. HP-gamma.-CyD, further increased plasma and lymph levels of CYA. These results suggest that DM-CyDs are particularly useful in improving the oral bioavailability of CYA, while hydrophobic acylated .beta.-CyDs are useful as a prolonged-release carrier for CYA. A CYA/olive oil soln. in combination with HP-.gamma.-CyD facilitated the lymphatic transfer of CYA.

ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1995:440965 CAPLUS DOCUMENT NUMBER:

122:273957 TITLE:

Characterization of peracylated .beta.cyclodextrins with different chain lengths as a novel sustained-release carrier for water-soluble drugs

AUTHOR(S):

Hirayama, Fumitoshi; Yamanaka, Masayuki; Horikawa,

Takashi; Uekama, Kaneto

CORPORATE SOURCE:

Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan

Chemical & Pharmaceutical Bulletin (1995), 43(1),

130-6

CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER:

SOURCE:

Pharmaceutical Society of Japan Journal

DOCUMENT TYPE: LANGUAGE: English

A new series of peracylated .beta.-cyclodextrins (.beta.-CyDs) with different alkyl chains (acetyl-lauroyl) was prepd. in high purity by acylating all hydroxyl groups of .beta.-CyD using acid anhydrides in pyridine, and their physicochem. properties of soly., hydrolysis and release and interaction capacity were evaluated. The soly. of peracylated .beta.-CyDs in water decreased with lengthening alkyl chain, whereas that in ethanol/water increased with increase in ethanol concn., but tended to decrease at higher ethanol concn. The soly, parameter of peracylated .beta.-CyDs was detd. by analyzing the peak-soly. phenomenon by a modified Hildebrand equation. The alk. hydrolysis rate of peracylated .beta.-CyDs decreased with lengthening alkyl chain, and was about 4-fold faster than that of the corresponding fatty acid Et esters. The interaction of perbutanoyl-.beta.-CyD (TB-.beta.-CyD) with a water-sol. drug, molsidomine, in the solid state was investigated by differential scanning calorimetry (DSC). The anal. of DSC curves suggested that molsidomine and TB-.beta.-CyD form a binary solid dispersion with a 2:1 (drug:TB-.beta.-CyD) molar ratio. The rate of drug release was markedly retarded by the combination with peracylated .beta.-CyDs in the increasing order of the hydrophobicity of host mols.

ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

1995:313718 CAPLUS

TITLE:

SOURCE:

Release-control of water-soluble drugs by adhesive and

film-forming acylated .beta .-

cyclodextrins

123:122963

AUTHOR(S):

Hirayama, Fumitoshi; Uekama, Kaneto

CORPORATE SOURCE:

Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan

Pharm Tech Japan (1995), 11(1), 19-24

CODEN: PTJAE9; ISSN: 0910-4739

PUBLISHER:

Yakugyo Jihosha

DOCUMENT TYPE: LANGUAGE:

Journal Japanese

Peracylated .beta.-cyclodextrins (.beta.-CyDs) with different alkyl chains (acetyl-lauroyl) were prepd. in high purity, and their physicochem. properties such as soly., hydrolysis and interaction-capacity were evaluated. Furthermore, a potential use of acylated .beta.-CyDs as a sustained-release carrier was investigated. Acylated .beta.-CyDs decelerated the release rate of water-sol. drugs such as molsidomine and salbutamol hydrosulfate, in proportion to the lengthening alkyl chain, and suppressed the peak plasma level of the drugs following oral administration of the acylated .beta.-CyD complexes in dogs. Among acylated .beta.-CyDs, perbutanoyl .beta.-CyD showed the most prominent retarding effect owing to its superior mucoadhesive property and hydrophobicity. On the other hand, perpentanoyl .beta.-Cyd formed an adhesive thin-film on water surface, when its benzene soln. was spread on water and the benzene was evapd. Molsidomine was incorporated in the film of perpentanoyl .beta.-CyD, from which the drug was slowly released. The results suggest that acylated .beta.-Cyds, particularly perbutanoyl and perpentanoyl .beta.-CyDs, may be useful in modifying the release rate of water-sol. drugs as a novel slow-release carrier.

```
L5
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN
     42399-41-7 REGISTRY
CN
     1,5-Benzothiazepin-4(5H)-one, 3-(acetyloxy)-5-[2-(dimethylamino)ethyl]-2,3-
     dihydro-2-(4-methoxyphenyl)-, (2S,3S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     1,5-Benzothiazepin-4(5H)-one, 3-(acetyloxy)-5-[2-(dimethylamino)ethyl]-2,3-
     dihydro-2-(4-methoxyphenyl)-, (2S-cis)-
OTHER NAMES:
CN
      (+)-cis-Diltiazem
      (+)-Diltiazem
CN
CN
     Adizem XL
CN
     Coras
     d-cis-Diltiazem
CN
CN
     d-Diltiazem
CN
     Diltiazem
CN
     Dilzem
FS
     STEREOSEARCH
MF
     C22 H26 N2 O4 S
CI
LC
     STN Files:
                   ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DIOGENES, DRUGPAT, DRUGU, EMBASE, IFICDB, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR,
       PHARMASEARCH, PROMT, RTECS*, SPECINFO, TOXCENTER, USAN, USPAT2,
       USPATFULL, VETU
     (*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, WHO
          (**Enter CHEMLIST File for up-to-date regulatory information)
```

Absolute stereochemistry. Rotation (+).

MeO
$$MW = WW$$

ACO $MW = WW$
 MW
 M

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4142 REFERENCES IN FILE CA (1957 TO DATE)
62 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4146 REFERENCES IN FILE CAPLUS (1957 TO DATE)

```
ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
  L2
       530-78-9 REGISTRY
  RN
       Benzoic acid, 2-[[3-(trifluoromethyl)phenyl]amino]- (9CI) (CA INDEX NAME)
  OTHER CA INDEX NAMES:
      Anthranilic acid, N-(.alpha.,.alpha.,.alpha.-trifluoro-m-tolyl)- (6CI,
  CN
 OTHER NAMES:
      2-[3-(Trifluoromethyl)anilino]benzoic acid
      2-[[3-(Trifluoromethyl)phenyl]amino]benzoic acid
 CN
      3'-Trifluoromethyl-N-phenylanthranilic acid
 CN
      3'-Trifluoromethyldiphenylamine-2-carboxylic acid
 CN
 CN
      Achless
 CN
      Ansatin
 CN
      ANT-1
 CN
      Arlef
      C.I. 440
 CN
 CN
      CI 440
 CN
      CN 27544
 CN
      Flufenamic acid
 CN
      Fluphenamic acid
 CN
      Fullsafe
 CN
      INF 1837
 CN
      Meralen
 CN
      Movilizin
      N-(.alpha.,.alpha.,.alpha.-Trifluoro-m-tolyl)anthranilic acid
 CN
     N-(m-Trifluoromethylphenyl)-2-aminobenzoic acid
CN
     N-[3-(Trifluoromethyl)phenyl]anthranilic acid
CN
CN
     NSC 82699
CN
     Paraflu
CN
     Parlef
CN
     Parlif
CN
     Pinox
CN
     Plostene
CN
     Ristogen
CN
     Sastridex
CN
     Surika
CN
     Tecramine
FS
     3D CONCORD
MF
     C14 H10 F3 N O2
CI
       N Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS,
LC
     STN Files:
       CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, HODOC*, IFICDB,
       IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PROMT, RTECS*, TOXCENTER,
       USAN, USPAT2, USPATFULL, VETU
         (*File contains numerically searchable property data)
    Other Sources:
                     EINECS**, WHO
         (**Enter CHEMLIST File for up-to-date regulatory information)
```

mW=

```
ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
 RN
      68630-75-1 REGISTRY
      1-9-Luteinizing hormone-releasing factor (swine), 6-[0-(1,1-dimethylethyl)-
 CN
      D-serine]-9-(N-ethyl-L-prolinamide)-, monoacetate (salt) (9CI) (CA INDEX
     NAME)
OTHER CA INDEX NAMES:
     Luteinizing hormone-releasing factor (pig), 6-[0-(1,1-dimethylethyl)-D-
CN
     serine] -9-(N-ethyl-L-prolinamide) -10-deglycinamide-, monoacetate (salt)
OTHER NAMES:
     1-9-Luteinizing hormone-releasing factor (pig), 6-[0-(1,1-dimethylethyl)-D-
CN
     serine]-9-(N-ethyl-L-prolinamide)-, monoacetate (salt)
CN
     Buserelin acetate
CN
     Estomal
CN
     Suprafact
CN
     Suprecur
     PROTEIN SEQUENCE; STEREOSEARCH
FS
DR
     131378-79-5
     C60 H86 N16 O13 . C2 H4 O2
MF
CI
    COM
T.C
    STN Files:
                 AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
      CAPLUS, CBNB, CHEMCATS, CIN, DRUGPAT, EMBASE, IPA, MRCK*, PHAR, PROMT,
      RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
        (*File contains numerically searchable property data)
```

RELATED SEQUENCES AVAILABLE WITH SEQLINK

CM 1

CRN 57982-77-1 CMF C60 H86 N16 O13

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

C62 HER NIGOLS

PAGE 1-B

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Ethanol (9CI)

MF C2 H6 O

CI COM

 $_{\rm H_3C-CH_2-OH}$

cpds from

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):44

T-13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS

Prosta-10,13-dien-1-oic acid, 15-hydroxy-9-oxo-, (13E,15S)-, compd. with IN

.alpha.-cyclodextrin octadecaacetate (10:1) (9CI) C72 H96 O48 . 10 C20 H32 O4

CM

Absolute stereochemistry.

CM 2

Absolute stereochemistry. Double bond geometry as shown.

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS

Prosta-10,13-dien-1-oic acid, 15-hydroxy-9-oxo-, (13E,15S)-, compd. with IN

.alpha.-cyclodextrin octadecaacetate (3:1) (9CI)

C72 H96 O48 . 3 C20 H32 O4 MF

CM

Absolute stereochemistry.

CM 2

Absolute stereochemistry. Double bond geometry as shown.

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (11.alpha.,13E,15S)-, compd. with .alpha.-cyclodextrin octadecaacetate (5:1) (9CI)
MF C72 H96 O48 . 5 C20 H34 O5

CM 1

Absolute stereochemistry.

CM 2

Absolute stereochemistry. Double bond geometry as shown.

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN .beta.-Cyclodextrin, heneicosaacetate, compd. with 1,4:3,6-dianhydro-D-glucitol 5-nitrate (9CI)

MF C84 H112 O56 . x C6 H9 N O6

CM 1

Absolute stereochemistry.

PAGE 1-A

CM 2

Absolute stereochemistry. Rotation (+).

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN .beta.-Cyclodextrin, heneicosaacetate, compd. with 1,2,3-propanetriyl trinitrate (9CI)

Absolute stereochemistry.

PAGE 1-A

CM 2

L13 REGISTRY COPYRIGHT 2003 ACS 45 ANSWERS

Pentanoic acid, hydroxy-, polymer with hydroxybutanoic acid (9CI) (C5 H10 O3 . C4 H8 O3)x IN MF

CI PMS

> CM 1

$$\begin{array}{c} {\rm O} \\ || \\ {\rm HO-C-CH_2-CH_2-CH_2-CH_3} \end{array}$$

D1-OH

CM 2

$${}^{\rm O}_{\rm HO-C-CH_2-CH_2-CH_3}$$

D1-OH

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN

Propanoic acid, 2-hydroxy-, polymer with hydroxyacetic acid (9CI)

(C3 H6 O3 . C2 H4 O3)x MF

CI PMS, COM

CM 1

CM 2

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Propanoic acid, 2-hydroxy-, homopolymer (9CI) MF (C3 H6 O3)x

PMS, COM

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI)
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT (C2 H4 O)n H2 O CI PMS, COM

HO
$$CH_2 - CH_2 - O$$
 H

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Ethenol, polymer with ethene (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT (C2 H4 O . C2 H4) xPMS, COM

> CM 1

 $H_2C = CH - OH$

 $H_2C = CH_2$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Acetic acid ethenyl ester, polymer with ethene (9CI)
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT
MF (C4 H6 O2 . C2 H4)x
CI PMS, COM

CM 1

 $AcO-CH=CH_2$

CM 2

 $H_2C = CH_2$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN .alpha.-Cyclodextrin, octadecaacetate (8CI, 9CI)
MF C72 H96 O48
CI COM

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Prosta-10,13-dien-1-oic acid, 15-hydroxy-9-oxo-, (13E,15S)- (9CI)
MF C20 H32 O4
CI COM

Absolute stereochemistry.
Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS 1-Propene, polymer with ethene (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF (C3 H6 . C2 H4)x CI

PMS, COM

CM 1

 $_{\rm H_3C-CH} = _{\rm CH_2}$

CM 2

 $H_2C = CH_2$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Cellulose, propanoate (9CI) MF C3 H6 O2 . x Unspecified COM

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Cellulose, acetate butanoate (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT C4 H8 O2 . x C2 H4 O2 . x Unspecified CI COM

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CM 3

0 || но— с— сн_з

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Cellulose (8CI, 9CI)
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT
MF Unspecified
CI PMS, COM, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN 1-Propene, homopolymer (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF (C3 H6)x
CI PMS, COM

CM 1

 $H_3C-CH=CH_2$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Ethene, chloro-, homopolymer (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF (C2 H3 C1)x CI PMS, COM

CM 1

 $H_2C = CH - C1$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Water (8CI, 9CI)
MF H2 O
CI COM

H20

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Acetic acid ethyl ester (8CI, 9CI) MF C4 H8 O2 CI COM

Et-0-Ac

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Acetic acid (7CI, 8CI, 9CI) MF C2 H4 O2 CI COM

но— с— сн³ 0

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN 1,2,3-Propanetriol, trinitrate (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF C3 H5 N3 O9 CI COM

$$\begin{array}{c} \text{O-NO}_2 \\ | \\ \text{O}_2 \text{N-O-CH}_2 - \text{CH-CH}_2 - \text{O-NO}_2 \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Prosta-10,13-dien-1-oic acid, 15-hydroxy-9-oxo-, (13E,15S)-, compd. with alpha.-cyclodextrin octadecaacetate (5:1) (9CI)
MF C72 H96 O48 . 5 C20 H32 O4

CM 1

Absolute stereochemistry.

CM 2

Absolute stereochemistry. Double bond geometry as shown.

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (11.alpha.,13E,15S)-,

compd. with .alpha.-cyclodextrin octadecaacetate (10:1) (9CI) MF C72 H96 O48 . 10 C20 H34 O5

CM 1

Absolute stereochemistry.

CM 2

Absolute stereochemistry. Double bond geometry as shown.

$$(CH_2)_6$$
 R
 R
 E
 CO_2H
 $CCH_2)_4$
 $CCH_2)_4$
 $CCH_2)_4$
 $CCH_2)_4$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (11.alpha.,13E,15S)-,
compd. with .alpha.-cyclodextrin octadecaacetate (3:1) (9CI)
MF C72 H96 O48 3 C20 H34 O5

CM 1

Absolute stereochemistry.

Absolute stereochemistry. Double bond geometry as shown.

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN .alpha.-Cyclodextrin, octadecaacetate, compd. with 1,4:3,6-dianhydro-D-glucitol 5-nitrate (9CI)
MF C72 H96 O48 . x C6 H9 N O6

CM 1

Absolute stereochemistry.

CM 2

Absolute stereochemistry. Rotation (+).

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Butanedioic acid, polymer with 2-hydroxypropanoic acid (9CI)
MF (C4 H6 O4 . C3 H6 O3)x
CI PMS

СМ

 $HO_2C-CH_2-CH_2-CO_2H$

1

CM 2

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Butanoic acid, hydroxy-, homopolymer (9CI) MF (C4 H8 O3)x CI PMS

CM 1

$$\begin{array}{c} {\rm O} \\ \parallel \\ {\rm HO-C-CH_2-CH_2-CH_3} \end{array}$$

D1-OH

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Poly[oxy(1-oxo-1,4-butanediyl)] (9CI)
MF (C4 H6 O2)n
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)] (8CI, 9CI)
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT
MF (C3 H4 O2)n
CI PMS, COM

RELATED POLYMERS AVAILABLE WITH POLYLINK

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Poly[oxy(1-oxo-1,6-hexanediyl)] (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF (C6 H10 O2)n CI PMS, COM

RELATED POLYMERS AVAILABLE WITH POLYLINK

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN 2-Oxepanone, homopolymer (9CI)

MF (C6 H10 O2)x CI PMS, COM

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN .beta.-Cyclodextrin, heneicosaacetate (8CI, 9CI)

MF C84 H112 O56

CI COM

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN D-Glucitol, 1,4:3,6-dianhydro-, 5-nitrate (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF C6 H9 N O6 CI COM

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Cellulose, butanoate (9CI)

MF C4 H8 O2 . x Unspecified

CI COM

> CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

$${}^{\rm O}_{\parallel}_{\rm HO-C-CH_2-CH_2-CH_3}$$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Starch (8CI, 9CI)

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT

MF Unspecified

CI COM, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS

Cellulose, acetate propanoate (9CI) IN

C3 H6 O2 . x C2 H4 O2 . x Unspecified MF

COM

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM

CM 3

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS Cellulose, acetate (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF C2 H4 O2 . x Unspecified CI COM

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Benzene, ethenyl-, homopolymer (9CI)
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT
MF (C8 H8) X
CI PMS, COM

CM 1

 $H_2C = CH - Ph$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Ethene, homopolymer (9CI)
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF (C2 H4)x
CI PMS, COM

CM 1

 $H_2C = CH_2$

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Ethene, tetrafluoro-, homopolymer (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF (C2 F4)x CI PMS, COM

CM 1

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (11.alpha.,13E,15S)- (9CI)
MF C20 H34 O5
CI COM

Absolute stereochemistry. Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN Acetic acid, methyl ester (6CI, 8CI, 9CI)